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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRM			
10/790,766	03/03/2004	Michelle M. Hanna 2072.0010008/LBB/SJE		4955		
26111	7590 07/25/2006 EXAMINER					
•	ESSLER, GOLDSTEIN &	KIM, YO	KIM, YOUNG J			
	ORK AVENUE, N.W. ON, DC 20005		ART UNIT	PAPER NUMBER		
			1637			
		DATE MAILED: 07/25/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)			
Office Action Summary		10/790,766		HANNA, MICHELLE M.			
			Examiner		Art Unit		
		_	Young J. Ki		1637	<u> </u>	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MISSIONS of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comperiod for reply is specified above, the maximum size to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period wi y will, by statute,	ATE OF THIS 6(a). In no even fill apply and will of cause the applic	S COMMUNICATION I, however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONEI	l. ely filed the mailing date of this co (35 U.S.C. § 133).		
Status							
1)	Responsive to communication(s) file	ed on	•				
• •			- action is non-final.				
·=			ice except fo	e except for formal matters, prosecution as to the merits is			
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🖂	Claim(s) 136-173 is/are pending in	the applicati	ion.				
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)[Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)⊠	Claim(s) 136-173 are subject to res	triction and/	or election r	equirement.			
Applicati	on Papers						
9) 🗌 .	The specification is objected to by the	ne Examiner	·.				
10)	The drawing(s) filed on is/are	: a) acce	epted or b)] objected to by the E	Examiner.		
	Applicant may not request that any obje	ection to the d	drawing(s) be	held in abeyance. See	37 CFR 1.85(a).		
	Replacement drawing sheet(s) including	g the correction	on is required	I if the drawing(s) is obj	ected to. See 37 CI	FR 1.121(d).	
11) 🔲	The oath or declaration is objected t	o by the Exa	aminer. Note	e the attached Office	Action or form P1	ГО-152.	
Priority u	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* S	ee the attached detailed Office action	on for a list o	of the certifie	ed copies not receive	d.		
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)					D-152)		
Paper No(s)/Mail Date 6) Other:							

DETAILED ACTION

Preliminary Remark

The Office acknowledges the cancellation of claims 1-135 in a preliminary amendment received on March 3, 2004.

Claims 136-173 are new and are pending before the Office therefore.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 136-163 and 171-173, drawn to a molecule which comprises a transcription initiation structure classified in class 536, subclass 24.3. If this Group is elected, a further species election is required.
- II. Claims 164-170, drawn to an array of molecules which comprises a transcription initiation structure classified in class 435, subclass 6.

The inventions are independent or distinct, each from the other because:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are structurally different in that the molecules of Group I are not required to be immobilized to a solid support (or a particle) while all of the products of Group II are required to be immobilized to a solid support, wherein in a certain embodiment, immobilized in high-density capacity. Based on their structural differences, the uses and steps governing the products, as well as their uses would differ.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Further Species Requirement for Group I

This application contains claims directed to the following patentably distinct species of the claimed invention:

<u>I – Self-complementary structure:</u>

A molecule comprising a self-complementary DNA sequence and an RNA-polymerase binding site; wherein said self-complementary sequence is among the following different structures:

A) one contiguous oligonucleotide to which RNA polymerase bind to form a transcription bubble (claim 136(a)(i) and claim 143);

B) two partially-complementary upper and lower oligonucleotides that form a single-stranded transcription bubble complex comprising a defined site from which an initiator and an RNA polymerase can synthesize an abortive oligonucleotide product (claim 136(a)(ii) and claims 142, and 144-148);

C) two complementary oligonucleotides that form a transcription bubble region in the presence of an RNA polymerase (claim 136(a)(iii))

II - Target-specific linker:

- A) DNA
- B) RNA;
- C) a nucleotide analog;
- D) an oligo dT sequence;

E) a chemically reactive group;
F) a thiol reactive group;
G) an amine reactive group;
H) an antibody;
I) a protein;
J) glutathione-s-transferase;
K) a methylase;
L) a demethylase;
M) DNA repair enzyme;
O) a nuclease;
P) a toxin;
Q) a signal peptide;
R) poly-L-lysine;
S) a hapten;
T) streptavidin;
U) biotin;
V) dinitrophenol;
W) an affinity tag;
X) hexahistadine;
Y) glutathione;
Z) a chelator;
AA) an alkylator;
AB) a modified linkage; and

AC) an alpha anomeric nucleic acid.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

With respect to species requirement I, no claim is generic.

With respect to species requirement II, claims 136 and 139-156 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was not made to request an oral election to the above restriction requirement, due to the complexity of the requirement (MPEP 812.01).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Inquiries

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Young J. Kim whose telephone number is (571) 272-0785. The Examiner is on flex-time schedule and can best be reached from 8:30 a.m. to 4:30 p.m (M-W and F). The Examiner can also be reached via e-mail to Young.Kim@uspto.gov. However, the office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Gary Benzion, can be reached at (571) 272-0782.

Papers related to this application may be submitted to Art Unit 1637 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If applicant does submit a paper by FAX, the original copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office. All official documents must be sent to the Official Tech Center Fax number: (571) 273-8300. For Unofficial documents, faxes can be sent directly to the Examiner at (571) 273-0785. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1600.

Young J. Kim

Primary Examiner

Art Unit 1637 7/21/2006 YOUNG J. KIM PRIMARY EXAMINER